



P.B. 5818 - Patentaan 2
2280 HV Rijswijk (ZH)
☎ (070) 340 2040
Tx 31651 epo nl
FAX (070) 340 3016

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C18

Dzieglewska, Hanna Eva
Frank B. Dehn & Co.,
European Patent Attorneys,
179 Queen Victoria Street
London EC4V 4EL
GRANDE BRETAGNE

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Anmeldung Nr./Application No./Demande n°/Patent Nr./Patent No./Brevet n°
99923958.5-2401/JP9903054

Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire
FUSO PHARMACEUTICAL INDUSTRIES LTD.

COMMUNICATION

The European Patent Office herewith transmits the supplementary partial European search report under Rule 46(1) EPC relating to the above mentioned European patent application.

Copies of the documents cited in the search report are enclosed.

The applicant's attention is drawn to the following:

The search Division informs the applicant that if the European search report is also to cover inventions other than the invention first mentioned in the claims, a further search fee must be paid for each of these inventions, within ONE MONTH after notification of this communication.

If the application has been filed up to 30 June 1999, the search fee in force before 01 July 1999 (EUR 869,-) or the equivalent applicable on the date of payment is payable.

This applies also to the search fees requested under Rule 46(1) EPC.

See also OJ EPO 06/1999, 405.

☐ The abstract was modified by the Search Division and the definitive text is attached to the present communication.

☒ Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

DUE DATES
NOTED

28/3/04
add
search



Note to users of the automatic debiting procedure:

Unless the EPO receives prior instructions to the contrary, the search fee(s) will be debited on the last day of the period for payment. For further details see the Arrangements for the automatic debiting procedure, Supplement to OJ EPO 02/1999.

REGISTERED LETTER



European Patent
Office

**SUPPLEMENTARY
PARTIAL EUROPEAN SEARCH REPORT**

under Rule 46, paragraph 1 of the European Patent Convention

Application Number

EP 99 92 3958

DOCUMENTS CONSIDERED TO BE RELEVANT

Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
X	DEBANT ANNE ET AL: "The multidomain protein Trio binds the LAR transmembrane tyrosine phosphatase, contains a protein kinase domain, and has separate rac-specific and rho-specific guanine nucleotide exchange factor domains" PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES, vol. 93, no. 11, 1996, pages 5466-5471, XP002267886 1996 ISSN: 0027-8424 * abstract * * page 5466, column 2, paragraph 2 * * page 5467, column 1, paragraph 3 * * page 5467, column 2, paragraph 2 - page 5468, column 1; figure 1 * ----- -/--	1-4, 7-10, 12, 15-18	C12N15/12 C07K14/72 C07K16/40 C12N9/12 G01N33/573
			TECHNICAL FIELDS SEARCHED (Int.Cl.6)
			C07K C12N

LACK OF UNITY OF INVENTION

The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

see sheet B

The present partial European search report has been drawn up for those parts of the European patent application which relate to the invention first mentioned in the claims.

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EPO FORM 1503 03.92 (P04C23)

Place of search	Date of completion of the search	Examiner
Munich	27 January 2004	Montrone, M
CATEGORY OF CITED DOCUMENTS		
X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document		
T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons & : member of the same patent family, corresponding document		



DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	^M QU Y ET AL: "THE N-TERMINAL AND C-TERMINAL DOMAINS OF A RECEPTOR TYROSINE PHOSPHATASE ARE ASSOCIATED BY NON-COVALENT LINKAGE" ONCOGENE, vol. 7, no. 6, 1992, pages 1051-1057, XP0009024547 & ISSN: 0950-9232 * abstract * * page 1051, column 2, paragraphs 1,2 * * page 1052, column 1, paragraph 1 - column 2, paragraph 2 * * page 1056, column 2, paragraph 4 * ----- -/--	1-4,6, 10,12, 15,16, 18,19	
X	ZHANG W R ET AL: "Molecular cloning and expression of a unique receptor-like protein-tyrosine-phosphatase in the leucocyte-common-antigen-related phosphate family." THE BIOCHEMICAL JOURNAL. 15 AUG 1994, vol. 302 (Pt 1), 15 August 1994 (1994-08-15), pages 39-47, XP0009024545 ISSN: 0264-6021 * abstract * * page 40, column 1, paragraph 1 - column 2, paragraph 6 * * page 44, column 2, paragraph 3 - page 45, column 2, paragraph 3 * ----- -/--	1-20	TECHNICAL FIELDS SEARCHED (Int.Cl.6)



DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
X	AHMAD FAIYAZ ET AL: "Increased abundance of the receptor-type protein-tyrosine phosphatase LAR accounts for the elevated insulin receptor dephosphorylating activity in adipose tissue of obese human subjects" JOURNAL OF CLINICAL INVESTIGATION, vol. 95, no. 6, 1995, pages 2806-2812, XP0009024546 & ISSN: 0021-9738 * page 2808, column 2, paragraph 2; figure 1 * * page 2806, column 2, paragraph 3 - page 2807, column 2, paragraph 5 * * abstract *	1-4, 6-10,12, 15-20	
E	EP 1 097 944 A (FUSO PHARMACEUTICAL IND) 9 May 2001 (2001-05-09) * abstract * * page 5, line 49 - page 7, line 12 *	1-20	
A	US 5 538 886 A (SCHLESSINGER JOSEPH ET AL) 23 July 1996 (1996-07-23) * abstract * * column 28, lines 30-46 * * column 33; table IV *	1-20	
	----- -/--		



DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int.Cl.6)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	<p>ZHANG J S ET AL: "LAR tyrosine phosphatase receptor: Alternative splicing is preferential to the nervous system, coordinated with cell growth and generates novel isoforms containing extensive CAG repeats"</p> <p>JOURNAL OF CELL BIOLOGY, ROCKEFELLER UNIVERSITY PRESS, NEW YORK, US, US, vol. 128, no. 3, February 1995 (1995-02), pages 415-431, XP002247628</p> <p>ISSN: 0021-9525</p> <p>* abstract *</p> <p>* page 418, column 1, paragraph 3; figure 1 *</p>	1-20	
A	<p>-----</p> <p>ITOH M ET AL: "PURIFICATION AND CHARACTERIZATION OF THE CATALYTIC DOMAINS OF THE HUMAN RECEPTOR-LINKED PROTEIN TYROSINE PHOSPHATASES HPTP-BETA LEUKOCYTE COMMON ANTIGEN LCA AND LEUKOCYTE COMMON ANTIGEN-RELATED MOLECULE LAR"</p> <p>JOURNAL OF BIOLOGICAL CHEMISTRY, vol. 267, no. 17, 1992, pages 12356-12363, XP002267887</p> <p>ISSN: 0021-9258</p> <p>* abstract *</p> <p>* page 12357, column 2, paragraph 2-5 *</p> <p>-----</p>	1-20	TECHNICAL FIELDS SEARCHED (Int.Cl.6)

**ANNEX TO THE EUROPEAN SEARCH REPORT
ON EUROPEAN PATENT APPLICATION NO.**

EP 99 92 3958

This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report.
The members are as contained in the European Patent Office EDP file on
The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

27-01-2004

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1097944	A	09-05-2001	AU 751340 B2	15-08-2002
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			CA 2332310 A1	20-01-2000
			EP 1097944 A1	09-05-2001
			WO 0002922 A1	20-01-2000
US 5538886	A	23-07-1996	US 5888794 A	30-03-1999
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			DE 69131482 T2	18-11-1999
			EP 0538401 A1	28-04-1993
			JP 5508777 T	09-12-1993
			JP 2002136292 A	14-05-2002
			US 2002127226 A1	12-09-2002
			US 5604094 A	18-02-1997
			US 5532123 A	02-07-1996
			US 6160090 A	12-12-2000
			WO 9201050 A1	23-01-1992
			US 5891700 A	06-04-1999
			US 5925536 A	20-07-1999



The Search Division considers that the present European patent application does not comply with the requirements of unity of invention and relates to several inventions or groups of inventions, namely:

1. claims: 1-20

An antibody having specificity to a LAR phosphatase subunit and methods for its generation.

2. claims: 21-34

An anti-LAR antibody having binding to thyroid carcinoma cells.

3. claim: 35

A diagnostic method for thyroid carcinoma using LAR mRNA.
